

The Light company

Houston Lighting & Power South Texas Project Electric Generating Station P. O. Box 289 Wadsworth, Texas 77483

March 2, 1992
ST-HL-AF-4020
File No.: G02
10CFR20.407

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

South Texas Project
Units 1 and 2
Docket Nos. STN 50-498, STN 50-499
Annual Reports Required by Tech. Spec. 6.9.1.2 and 10CFR20.407

Attached are the Annual Reports required by the South Texas Project Electric Generating Station Technical Specification 6.9.1.2 and 10CFR20.407. These reports consist of: Annual Personnel Exposure Reports required by Technical Specification 6.9.1.2.a and 10CFR20.407; and a report of the results of specific activity analyses in which the primary coolant exceeded the limits of Technical Specification 3.4.8 as required by Technical Specification 6.9.1.2.b.

If you should have any questions on this matter, please contact Mr. C. A. Ayala at (512) 972-8628.

William J. Jump
William J. Jump
Manager,
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MKJ/amp

Attachments: 1) Annual Personnel Exposure Reports
2) A Report of Results of Specific Activity Analysis in which the Primary Coolant Exceeded the Limits of Technical Specification 3.4.8

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A Subsidiary of Houston Industries Incorporated

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Houston Lighting & Power Company
South Texas Project Electric Generating Station

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Revised 10/11/91

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ANNUAL PERSONNEL EXPOSURE REPORTS

Technical Specification 6.9.1.2.a requires a tabulation on an annual basis of the number of station, utility, and other personnel (including contractors) receiving exposures greater than 100 mrem/yr and their associated man-rem exposures according to work and job functions. This data is presented on page two of this attachment. Specific tasks included in the Special Maintenance work and job function are listed on page three.

10CFR20.407(a) requires a report of the total number of individuals for whom personnel monitoring was provided for the reporting year. This number and a statistical summary of whole body exposure to these individuals is presented on page four of this attachment. An explanation of the statistics is provided on page five of this attachment.

During 1991, 2835 personnel were monitored and no single individual received greater than 2.0 rem.

02/07/92 AT 17:28

Plant Radiation Exposure Planning And Reporting Database

Attachment 1

ST-HL-AE-4020

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Licensee: HOUSTON LIGHTING & POWER COMPANY

Address: Post Office Box 289

Wadsworth, Texas 77483

NRC License Number(s): NPF - 76; NPF - 80

REPORTING YEAR: 1991

APPENDIX A

STANDARD FORMAT FOR REPORTING NUMBER OF PERSONNEL AND MAN-REM BY WORK AND JOB FUNCTION

WORK & JOB FUNCTION	NUMBER OF PERSONNEL (> 100 MREM)			TOTAL MAN-REM *		
	STATION EMPLOYEES	UTILITY EMPLOYEES	CONTRACTORS AND OTHERS	STATION EMPLOYEES	UTILITY EMPLOYEES	CONTRACTORS AND OTHERS
REACTION OPS & SURVEILLANCE						
Maintenance Personnel	3	0	0	1,039	0,000	0,240
Operating Personnel	29	0	0	6,225	0,000	0,004
Health Physics Personnel	34	0	38	11,479	0,000	14,790
Supervisory Personnel	5	0	0	2,064	0,136	0,000
Engineering Personnel	2	0	0	0,665	0,000	0,301
Nuclear Assurance Personnel	0	0	0	0,280	0,000	0,000
Other Personnel	0	1	1	0,000	1,394	0,652
ROUTINE MAINTENANCE						
Maintenance Personnel	60	0	16	18,975	0,000	6,263
Operating Personnel	1	0	0	0,224	0,000	0,024
Health Physics Personnel	3	0	1	1,670	0,000	1,954
Supervisory Personnel	2	0	0	0,833	0,149	0,000
Engineering Personnel	3	0	5	1,045	0,000	1,640
Nuclear Assurance Personnel	2	0	0	1,195	0,000	0,000
Other Personnel	0	0	43	0,000	0,400	14,336
IN-SERVICE INSPECTION						
Maintenance Personnel	1	0	0	1,364	0,000	0,461
Operating Personnel	0	0	0	0,017	0,000	0,000
Health Physics Personnel	0	0	0	0,256	0,000	0,580
Supervisory Personnel	0	0	0	0,137	0,000	0,000
Engineering Personnel	4	0	3	1,424	0,000	0,971
Nuclear Assurance Personnel	2	0	0	0,942	0,000	0,000
Other Personnel	0	0	33	0,000	0,175	14,818
SPECIAL MAINTENANCE						
Maintenance Personnel	39	0	5	12,087	0,000	2,289
Operating Personnel	0	0	0	0,024	0,000	0,065
Health Physics Personnel	5	0	17	1,462	0,000	5,295
Supervisory Personnel	4	0	0	1,155	0,133	0,000
Engineering Personnel	0	0	82	0,186	0,000	38,047
Nuclear Assurance Personnel	9	0	0	2,459	0,000	0,000
Other Personnel	0	0	59	0,000	0,250	31,250
WASTE PROCESSING						
Maintenance Personnel	0	0	0	0,049	0,000	0,013
Operating Personnel	0	0	0	0,006	0,000	0,000
Health Physics Personnel	4	0	67	3,329	0,000	21,236
Supervisory Personnel	1	0	0	0,787	0,059	0,000
Engineering Personnel	0	0	0	0,124	0,300	0,208
Nuclear Assurance Personnel	0	0	0	0,073	0,000	0,000
Other Personnel	0	0	1	0,000	0,389	1,859
REFUELING						
Maintenance Personnel	25	0	4	8,310	0,000	1,149
Operating Personnel	0	0	10	0,063	0,000	2,874
Health Physics Personnel	3	0	4	1,396	0,000	2,316
Supervisory Personnel	5	1	0	1,907	0,213	0,000
Engineering Personnel	0	0	15	0,217	0,000	5,969
Nuclear Assurance Personnel	2	0	0	0,690	0,000	0,000
Other Personnel	0	3	40	0,000	0,757	10,364
TOTAL WORK & JOB FUNCTION						
Maintenance Personnel	128	0	25	41,824	0,000	10,415
Operating Personnel	30	0	10	6,579	0,000	2,967
Health Physics Personnel	47	0	127	19,592	0,000	46,171
Supervisory Personnel	17	1	0	6,883	0,690	0,000
Engineering Personnel	9	0	105	3,661	0,000	47,136
Nuclear Assurance Personnel	15	0	0	5,639	0,000	0,000
Other Personnel	0	4	102	0,000	3,385	73,279
GRAND TOTAL	245	5	449	84,178	4,075	179,968

* Dose as estimated by Self Reading Dosimeter.

ANNUAL PERSONNEL EXPOSURE REPORTS

Additional Information:

The following is a listing of special maintenance, as referenced in the attached Technical Specification 6.1.9.2.a report performed at the South Texas Project Electric Generating Station (STPEGS) for the year 1991:

Chemical Volume Control System (CVCS) valve repairs in both units.

Motor operated valve actuator testing (MOVAT) in both units.

Eddy current testing of steam generator (S/G) tubes in both units.

S/G tube plug removal and installation in both units.

Cold leg shot peening in all four S/Gs in Unit 2.

Sludge lancing of all S/Gs in both units.

Repair of fuel transfer system upender and cart in both units.

Seal replacement on reactor coolant pumps in both units.

Replacement of incore detectors in both units.

Disassembly & inspection of safety injection check valves in both units.

Installation of alternate 2" RCS vent path in Unit 2.

Modification of the reactor head vent line in Unit 2.

02/04/92 AT 08:56 Plant Radiation Exposure Planning And REporting Database

PERSONNEL MONITORING - ANNUAL STATISTICAL REPORT FOR 1991

This report is furnished to the Office of Nuclear Regulatory Research
as required by Part 20.407 of the Code of Federal Regulations, Title 10

Licensee: HOUSTON LIGHTING & POWER COMPANY
Address: Post Office Box 289
Wadsworth, Texas 77483

NRC License Number(s): NPF - 76; NPF - 80

Total number of individuals for whom personnel monitoring
was provided for the Reporting Year submitted in accordance
with paragraph (a) (2) of Section 20.407 2835

STATISTICAL SUMMARY

Estimated Whole Body Exposure(1,3) (rems)	Number of Individuals in each range/man-rem	
No Measurable Exposure(2)	1691	0.018
Measurable Exposure less than 0.1	515	20.448
0.1 to 0.25	257	43.162
0.25 to 0.5	218	77.542
0.5 to 0.75	94	57.398
0.75 to 1	38	32.247
1 to 2	22	25.892
2 to 3	0	0.000
3 to 4	0	0.000
4 to 5	0	0.000
5 to 6	0	0.000
6 to 7	0	0.000
7 to 8	0	0.000
8 to 9	0	0.000
9 to 10	0	0.000
10 to 11	0	0.000
11 to 12	0	0.000
12+	0	0.000

- *****
1. As determined using PANASONIC TLDs.
2. Includes exposure less than 0.010 rem.
3. Individual values exactly equal to the value separating ranges shall be reported
in the higher range.

TOTAL NUMBER OF INDIVIDUALS IN ALL RANGES: 2835

TOTAL MAN-REM 256.707

APPROVED BY: _____

HEALTH PHYSICS MANAGER

DATE: 2 / 12 / 92

ANNUAL PERSONNEL EXPOSURE REPORTS

The difference in total man-rem recorded on these two reports is due to the use of TLD values on the 10CFR20.407 report and use of SRD values on the Technical Specification 6.9.1.2.a report.

Single individuals are listed in more than one work category on the Technical Specification 6.9.1.2.a report. This accounts for the apparent discrepancy in the number of individuals with a whole body exposure greater than 100 mRem on the 10CFR20.407 report.

Technical Specification 6.9.1.2.b requires the results of specific activity analyses in which the primary coolant exceeded the limits of Technical Specification 3.4.8.

Unit 1 and Unit 2 have not exceeded the limits of Technical Specification 3.4.8 for the calendar year of 1991.